

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 63-108019

(43)Date of publication of application : 12.05.1988

(51)Int.Cl.

C08G 18/48

(21)Application number : 62-086565

(71)Applicant : TAKIRON CO LTD

(22)Date of filing : 07.04.1987

(72)Inventor : SHIKINAMI YASUO

(30)Priority

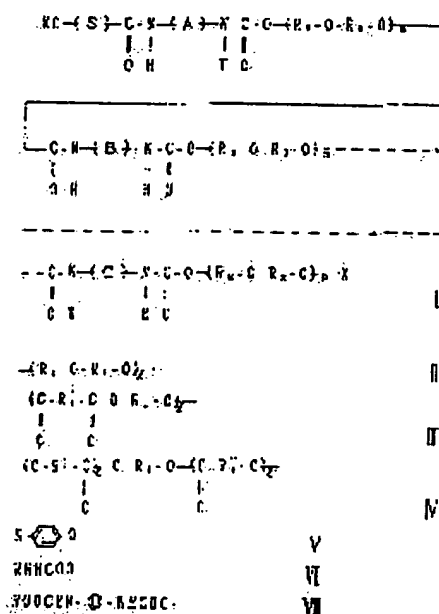
Priority number : 61111477 Priority date : 14.05.1986 Priority country : JP

## (54) AMPHIPHILIC SEGMENTED POLYURETHANE

## (57)Abstract:

PURPOSE: To obtain the title polymer excellent in emulsifying power, dispersibility, solvating power, viscoelastic strength and moldability and capable of forming a stable emulsion, having a specified structural formula.

CONSTITUTION: An alkylene oxide is reacted with an isocyanate compound and, optionally, a polyester to obtain the title polymer wherein, when viewed from one of its molecular terminals, the alkylene oxide segments vary gradually from hydrophilic one to hydrophobic one, which is represented by formula I, wherein S is a polyalkylene oxide segment of formula II [wherein R1WRx are each 2W7C (branched) polymethylene], an aliphatic polyester segment comprising a dibasic acid and a dihydric alcohol and represented by formula III (wherein R1 is a methylene of the dihydric alcohol constituting the polyester) or a polyester segment comprising an ester of a ring opening polymer of a cyclic ester with a dihydric alcohol and represented by formula IV (wherein R1 is as defined in formula III); -OX on the hydrophobic side, i.e., on the S segment side is RO-, RCOO, a group of any one of formulas VWVII (wherein R is alkyl or vinyl and (U)



is an isocyanate skeleton and -OX on the hydrophilic side is -OH, -OCl, -OBr or -OF; l, l', m, n and p are positive integers each representing the degree of polymerization; and A, B and C are each a skeleton of the isocyanate compound.

---

## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office